

Summary

Clamping device with overload protection

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The invention is based on a clamping device with overload protection and a process to connect both elements, which are to be connected (1,2), whereby the clamping device is fitted with an element to be connected first (1), an element to be connected second (2), which is connected to the first element, and a bracing bolt (3) to connect. In order to ensure effective overload protection, the clamping device contains a sleeve (4), which is connected with the second element to be connected (2) through the bracing bolt (3, and which runs through the first element to be connected (1), and a sleeve tensioning device (5), which is engaged with the sleeve (4, and which clamps the first element to be connected (1) with the second element to be connected (2), whereby the bracing bolt (3) is stretched to a predetermined stress level (3f') in relation to its elastic limit, whereby the sleeve (4) is released of tension up to a predetermined release level (4f'), and a transgression of the operating force, which separates the two elements to be connected (1,2, leads - beyond an operating force limit - to a stress release of the sleeve (4) relative to the clamping, by the bracing bolt (3, and to a breaking of the bracing bolt.

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Fig. 2

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